

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/540,615A  
Source: PCR  
Date Processed by STIC: 2/15/06

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 02/15/2006

PATENT APPLICATION: US/10/540,615A

TIME: 10:16:43

Input Set : A:\Sequence Listing.ST25.txt

Output Set : N:\CRF4\02152006\J540615A.raw

3 <110> APPLICANT: CENTER FOR GENETIC ENGINEERING AND BIOTECHNOLOGY

5 <120> TITLE OF INVENTION: RECOMBINANT HEPATITIS A VIRUS ANTIGENS OBTAINED IN PLANT  
CELLS

7 <130> FILE REFERENCE: 976-27 PCT/US

9 <140> CURRENT APPLICATION NUMBER: 10/540,615A

10 <141> CURRENT FILING DATE: 2005-06-23

12 <150> PRIOR APPLICATION NUMBER: PCT/CU2003/000017

13 <151> PRIOR FILING DATE: 2003-12-19

15 <150> PRIOR APPLICATION NUMBER: CU 2003/0031

16 <151> PRIOR FILING DATE: 2003-01-31

18 <160> NUMBER OF SEQ ID NOS: 24

20 <170> SOFTWARE: PatentIn version 3.3

22 <210> SEQ ID NO: 1

23 <211> LENGTH: 25

24 <212> TYPE: DNA

25 <213> ORGANISM: artificial sequence

27 <220> FEATURE:

28 <223> OTHER INFORMATION: synthetic sequence

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35 <211> LENGTH: 22

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37 <213> ORGANISM: artificial sequence

39 <220> FEATURE:

40 <223> OTHER INFORMATION: synthetic sequence

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48 <212> TYPE: DNA

49 <213> ORGANISM: artificial sequence

51 <220> FEATURE:

52 <223> OTHER INFORMATION: synthetic sequence

54 <400> SEQUENCE: 3

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57 tccttggcag atattgagga agagcaaag attcagtcg ttgataggac tgcagtgact 120

59 ggagcttctt atttcacttc tgtggacaa tcttcagttc atactgctga ggttgggtca 180

61 caccaaattg aacctttgaa aacctctgtt gataaacctg gttctaagaa aactcagggg 240

63 gagaagtttt tcttgattca ttctgctgat tggctcacta cacatgctct ctttcatgaa 300

65 gttgcaaaat tggatgtggt gaaactgctg tacaatgagc agtttgccgt ccaagggttg 360

67 ttgagatacc atacttatgc aagatttggc attgagattc aagttcagat aaatcccaca 420

69 ccctttcagc aaggaggact aatctgtgcc atggttcctg gtgaccaaag ttatggttca 480

71 atagcatcct tgactgttta tcctcatggt ctgttaaatt gcaatatcaa caatgtagtt 540

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|     |             |             |             |            |             |             |      |
|-----|-------------|-------------|-------------|------------|-------------|-------------|------|
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| 75  | ccagtttggg  | aattgacaat  | cagagtttgg  | tcagagttga | atattggaac  | aggaacctca  | 660  |
| 77  | gcttatactt  | cactcaatgt  | tttagctagg  | tttacagatt | tggagttgca  | tggattaact  | 720  |
| 79  | cctcttttcta | cacagatgat  | gagaaatgaa  | tttagagtta | gtactactga  | aaatgttgta  | 780  |
| 81  | aatttgtcaa  | attatgaaga  | tgcaagggca  | aaaatgtctt | ttgcttttga  | tcaggaagat  | 840  |
| 83  | tggaagtctg  | atccttccca  | aggtggttga  | attaaaatta | ctcatttcac  | tacctggaca  | 900  |
| 85  | tccattccaa  | ccttagctgc  | tcagtttcca  | ttcaatgctt | cagattcagt  | tgggcaacaa  | 960  |
| 87  | attaaagtta  | taccagtggg  | cccatacttt  | ttccagatga | caaacactaa  | tcctgatcaa  | 1020 |
| 89  | aaatgtataa  | cagccttggc  | ctctattttgt | cagatgttct | gcttttggag  | gggagatctt  | 1080 |
| 91  | gttttcgatt  | tccaggtttt  | tccaaccaa   | tatcattcag | gtaggctgtt  | gttttgttt   | 1140 |
| 93  | gttcctggga  | atgagttaat  | agatgttact  | ggaattacat | taaaacaggc  | aactactgct  | 1200 |
| 95  | ccttgtgcag  | tgatggacat  | tacaggagtg  | cagtcaacct | tgagatttcg  | tgttccttgg  | 1260 |
| 97  | atttctgata  | caccctatcg  | agtgaatagg  | tacacgaagt | cagcacatca  | aaaagggtgag | 1320 |
| 99  | tatactgcc   | ttgggaagct  | tattgtgtat  | tggtataata | gattgacttc  | tccttcta    | 1380 |
| 101 | gttgcttctc  | atgttagagt  | taatgtttat  | ctttcagcaa | ttaatttggg  | atgttttgc   | 1440 |
| 103 | cctctttacc  | atgctatgga  | tgttaccaca  | caggttggag | atgattcagg  | aggtttctca  | 1500 |
| 105 | acaacagttt  | ctacagagca  | gaatgttctt  | gatccccaa  | ttggcataac  | aaccatgagg  | 1560 |
| 107 | gatttaaaa   | ggaaagccaa  | taggggaaag  | atggatgtat | caggagtgc   | ggtacctgtg  | 1620 |
| 109 | ggagctatta  | caacaattga  | ggatccagtt  | ttagcaaaga | aagtacctga  | gacatttctt  | 1680 |
| 111 | gaattgaagc  | ctggagaatc  | cagacataca  | tcagatcaca | tgtctattta  | taaattctatg | 1740 |
| 113 | ggaaggcttc  | atttcttgtg  | tacttttact  | tttaattcaa | acaataaaga  | gtacacattt  | 1800 |
| 115 | ccaataactc  | tgtcttcgac  | ttctaatect  | cctcatgggt | taccatcaac  | attaagggtg  | 1860 |
| 117 | ttctttaatt  | tgtttcagtt  | gtatagagga  | ccattggatt | tgacaattat  | aatcacagga  | 1920 |
| 119 | gccactgatg  | tggtatggtat | ggcctgggtt  | actccagtg  | gccttgctgt  | cgacacctct  | 1980 |
| 121 | tgggtggaaa  | agaagtcagc  | tttgtctatt  | gattataaaa | ctgcccttgg  | agctgttaga  | 2040 |
| 123 | tttaatacaa  | gaagaacagg  | gaacattcag  | attagattgc | catgggtattc | ttatttgtat  | 2100 |
| 125 | gccgtgtctg  | gagcactgga  | tggtctggga  | gataagacag | attctacatt  | tggtatgggt  | 2160 |
| 127 | tctattcaga  | ttgcaaatta  | caatcattct  | gatgaatatt | tgtcctttag  | ttgttatttg  | 2220 |
| 129 | tctgtcacag  | agcaatcaga  | gttctatttc  | cctagagctc | cattaaattc  | aaatgctatg  | 2280 |
| 131 | ttgtccactg  | agtcacatgat | gagtagaatt  | gcagctggag | acttggagtc  | atcagtggat  | 2340 |
| 133 | gatcccagat  | cagaggagga  | cagaagattt  | gagagtcata | tagaatgtag  | gaaaccatat  | 2400 |
| 135 | aaagaattga  | gactggaggt  | tgggaaacaa  | agaatcaaat | atgctcagga  | agagttatca  | 2460 |
| 137 | aatgaagtgc  | ttccacctcc  | taggaaaatg  | aaggggttat | tttcacaagc  | taaaatttct  | 2520 |
| 139 | cttttttata  | cagaggacca  | tgaataaatg  | aaattttctt | ggagaggagt  | gactgcta    | 2580 |
| 141 | actagggtct  | tgagaagatt  | tggtattctt  | ctggctgctg | gtagaagtgt  | gtggactctt  | 2640 |
| 143 | gaaatggatg  | ctggagttct  | tactggaaga  | ttgatcagat | tgaatgatga  | gaaatggaca  | 2700 |
| 145 | gaaatgaagg  | atgataagat  | tgtttcatta  | attgaaaagt | tcacaagcaa  | taaacattgg  | 2760 |
| 147 | tctaaagtga  | attttccaca  | tggaaatgtg  | gatcttgagg | aaattgctgc  | caactctaaa  | 2820 |
| 149 | gatttttccaa | atatgtctga  | gacagatttg  | tgtttctctg | tgcattggct  | aaatccaaag  | 2880 |
| 151 | aaaattaatt  | tagcagatag  | aatgcttggg  | ttgtctggag | tgaggaaat   | taagaacag   | 2940 |
| 153 | ggtgttggac  | tgatagcaga  | gtgtagaact  | ttcttggatt | ctattgctgg  | gactttgaaa  | 3000 |
| 155 | tctatgattt  | ttgggtttca  | ttattctgtg  | actgttgaaa | ttataaatat  | tgtgctttgt  | 3060 |
| 157 | tttattaaga  | gtggaatcct  | gctttatgtc  | atacaacaat | tgaaccaaga  | tgaacactct  | 3120 |
| 159 | cacataattg  | gtttgttgag  | agttatgaat  | tatgcagata | ttggctgttc  | agtcatttca  | 3180 |
| 161 | tgtggtaaag  | ttttttccaa  | aatgttagaa  | acagttttta | attggcaaat  | ggactctaga  | 3240 |
| 163 | atgatggagc  | tgaggactca  | gagcttctcc  | aattggttta | gagatatttg  | ttcgggaatt  | 3300 |
| 165 | actattttta  | aaagttttta  | ggatgccata  | tattggttat | gtacaaaatt  | gaaggatttt  | 3360 |
| 167 | tatgaagtaa  | attatggcaa  | gaaaaaggat  | gttcttaata | ttctcaaaga  | taaccagcaa  | 3420 |
| 169 | aaaatagaaa  | aagccattga  | agaagcagac  | aatttttgca | ttttgcaaat  | tcaagatgtg  | 3480 |

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| 173 | tcaatggctc  | aagttgaccc | cagtttgggg  | gttcatttgt  | cacctctcag | agattgcata | 3600 |
| 175 | gcaagagtcc  | atcaaaagct | caagaatctt  | ggatctataa  | atcaggccat | ggtaacaaga | 3660 |
| 177 | tgtgagccag  | ttgtttgcta | tttgtatggc  | aaaagagggg  | gagggaaaag | cttgacttca | 3720 |
| 179 | attgcattgg  | caacccaaat | ttgtaaacac  | tatggtgttg  | aacctgagaa | aaatatttac | 3780 |
| 181 | accaaacctg  | tggcctcaga | ttattgggat  | ggatatagtg  | gacaattagt | ttgtattatt | 3840 |
| 183 | gatgatatcg  | gccaaaacac | aacagatgaa  | gatttggtcag | atttttgtca | attagtgtca | 3900 |
| 185 | ggatgcccaa  | tgagattgaa | tatggcttct  | cttgaggaga  | agggcagaca | tttttccctc | 3960 |
| 187 | cctttttataa | tagcatcttc | aaattgggtca | aatccaagtc  | caaaaacagt | ttatgttaaa | 4020 |
| 189 | gaagcaattg  | atcgtaggct | tcatttttaag | gttgaagtta  | aacctgcttc | attttttaaa | 4080 |
| 191 | aatcctcaca  | atgatatgtt | aaatgttaat  | ttggctaaaa  | caaataatgc | aattaaagac | 4140 |
| 193 | atgtcttctg  | ttgatttgat | aatggatgga  | cacaatat    | cattgatgga | tttacttagt | 4200 |
| 195 | tccttagtga  | tgacaggtga | aattaggaaa  | cagaatatga  | gtgaattcat | ggagttgtgg | 4260 |
| 197 | tctcagggaa  | tttcagatga | tgacaatgat  | agtgcagtag  | ctgagttttt | ccggtctttt | 4320 |
| 199 | ccatctgggtg | aaccatcaaa | ttccaagtta  | tctagttttt  | tccaagctgt | cactaatcac | 4380 |
| 201 | aagtggggtt  | ctgtgggagc | tgcagttggg  | attccttggat | tgctagtggg | aggatgggtt | 4440 |
| 203 | gtgtataagc  | atttttcccg | caaagaggaa  | gaaccaattc  | cagctgaagg | ggtttatcat | 4500 |
| 205 | ggagtgacta  | agcccaaaca | agtgattaaa  | ttggatgcag  | atccagtaga | gtctcagtc  | 4560 |
| 207 | actctagaaa  | tagcaggatt | agttaggaaa  | aatttgggtc  | agtttggagt | tggtagagaa | 4620 |
| 209 | aattggatgtg | tgagatgggt | catgaatgcc  | ttaggagtga  | aggatgattg | gttgttagta | 4680 |
| 211 | ccttctcatg  | cttataaatt | tgaaaaggat  | tatgaaatga  | tggagtttta | tttcaataga | 4740 |
| 213 | gggtggaactt | actattcaat | ttcagctggg  | aatgttgtta  | ttcaatcttt | agatgtggga | 4800 |
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| 217 | cattttatta  | agaaaggaga | tgtgcctaga  | gccttgaatc  | gcttggcaac | attagtgaca | 4920 |
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| 223 | agaggaaaag  | gtgaaggctc | tcctggaatg  | tgtgggtggg  | ccctagtgtc | atcaaatcag | 5100 |
| 225 | tccatacaaa  | atgcaatttt | gggtattcat  | gttgctggag  | gaaattcaat | tcttgtggca | 5160 |
| 227 | aagttgatta  | ctcaagaaat | gtttcaaaac  | attgataaga  | aaattgaaag | tcagagaata | 5220 |
| 229 | atgaaagtgg  | aatttactca | atgttcaatg  | aatgtagtct  | ccaaaacgct | ttttagaaag | 5280 |
| 231 | agtcccattc  | atcaccacat | tgataaaacc  | atgattaatt  | ttcctgcagc | tatgcctttc | 5340 |
| 233 | tctaaagctg  | aaattgatcc | aatggctatg  | atgttgtcta  | aatattcatt | acctattgtg | 5400 |
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| 239 | gatgctatta  | atatggattc | atctcctggg  | tttccttatg  | ttcaagaaaa | attgactaaa | 5580 |
| 241 | agagatttga  | tttggttgga | tgaaaatggt  | ttactgttag  | gagttcaccc | aagattggcc | 5640 |
| 243 | cagagaatct  | tatttaatac | tgtcatgatg  | gaaaattggt  | ctgacttaga | tgttgttttt | 5700 |
| 245 | acaacttgtc  | caaaagatga | attgagacca  | ttagagaaag  | ttttggaatc | aaaaacaaga | 5760 |
| 247 | gctattgatg  | cttgcccttt | ggattataca  | attttatgtc  | gaatgtattg | gggtccagct | 5820 |
| 249 | attagttatt  | ttcatttgaa | tccagggttt  | cacacagggtg | ttgctattgg | catagatcct | 5880 |
| 251 | gatagacagt  | gggatgaatt | atttaaaaca  | atgataagat  | ttggagatgt | tggctctgat | 5940 |
| 253 | ttagattttt  | ctgcttttga | tgccagttct  | agtcatttta  | tgattaggga | agcaggtaga | 6000 |
| 255 | atcatgagtg  | aattatctgg | aacaccatct  | cattttggaa  | cagctcttat | caatactatc | 6060 |
| 257 | atttattcta  | aacatctgct | gtacaattgt  | tgttatcacg  | tctgtgggtc | aatgccttct | 6120 |
| 259 | gggtctcctt  | gtacagcttt | gttgaattca  | attattaata  | atattaattt | gtattatgtg | 6180 |
| 261 | ttttctaaaa  | tatttgga   | gtctccagtt  | ttcttttgtc  | aagctttgag | gatcctttgt | 6240 |
| 263 | tatggagatg  | atgttttgat | agttttttcc  | agagatgttc  | aaattgataa | tcttgacttg | 6300 |
| 265 | attggacaga  | aaattgtgga | tgagttcaaa  | aaacttggca  | tgacagccac | ttcagctgac | 6360 |
| 267 | aaaaatgtgc  | ctcaactgaa | gccagtttca  | gaattgactt  | ttcttaaaag | atctttta   | 6420 |

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271 tggcagagaa gtaacgctga gtttgagcag aatttagaaa atgctcagtg gtttgctttc 6540
273 atgcatggct atgagttcta tcagaaattc tattattttg ttcagtcctg tttggagaaa 6600
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297 <220> FEATURE:
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319 caccaaattg aacctttgaa aacctctgtt gataaacctg gttctaagaa aactcagggg 240
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359 gttgcttctc atggttagagt taatgtttat ctttcagcaa ttaatttgga atgttttgct 1440
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363 acaacagttt ctacagagca gaatgttcct gatccccaag ttggcataac aaccatgagg 1560
365 gattttaaag ggaaagccaa taggggaaag atggatgtat caggagtgcg ggtacctgtg 1620
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375 ttctttaatt tgtttcagtt gtatagagga ccattggatt tgacaattat aatcacagga 1920
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393 aaagaattga gactggaggt tgggaaacaa agaatcaa atgctcagga agagttatca 2460
395 aatgaagtgc ttccacctcc taggaaaatg aaggggttat atgcttctgg aggtgaattc 2520
397 gat 2523

400 <210> SEQ ID NO: 7
401 <211> LENGTH: 27
402 <212> TYPE: DNA
403 <213> ORGANISM: artificial sequence
405 <220> FEATURE:
406 <223> OTHER INFORMATION: synthetic sequence
408 <400> SEQUENCE: 7
409 ccattgggaat ttcagatgat gacaatg 27
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413 <211> LENGTH: 26
414 <212> TYPE: DNA
415 <213> ORGANISM: artificial sequence
417 <220> FEATURE:
418 <223> OTHER INFORMATION: synthetic sequence
420 <400> SEQUENCE: 8
421 ggatatcggt tcttctctt tgcggg 26
424 <210> SEQ ID NO: 9
425 <211> LENGTH: 85
426 <212> TYPE: DNA
427 <213> ORGANISM: artificial sequence
429 <220> FEATURE:
430 <223> OTHER INFORMATION: synthetic sequence
432 <400> SEQUENCE: 9
433 tccagctggt ggggtttatc atggagtgc taagcccaaa caagtgatta aattggatgc 60
435 agatccagta gactctcagt tgact 85
438 <210> SEQ ID NO: 10
439 <211> LENGTH: 89

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VERIFICATION SUMMARY

DATE: 02/15/2006

PATENT APPLICATION: US/10/540,615A

TIME: 10:16:44

Input Set : A:\Sequence Listing.ST25.txt

Output Set: N:\CRF4\02152006\J540615A.raw